

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
	Applicant Gilbert Wolrich et al.		
	Filing Date December 28, 1999	Group Art Unit 2143 2443	

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1	2001/0023487	09/2001	Kawamoto			
	A2	2002/0027448	03/2002	Bacigalupo			
	A3	2002/0041520	04/2002	Wolrich et al.			
	A4	2002/0075878	06/2002	Lee et al.			
	A5	2002/0118692	08/2002	Oberman et al.			
	A6	2002/0150047	10/2002	Knight et al.			
	A7	2002/0181194	12/2002	Ho et al.			
	A8	2003/0043803	03/2003	Hooper			
	A9	2003/0067934	04/2003	Hooper et al.			
	A10	2003/0086434	05/2003	Kloth			
	A11	2003/0105901	06/2003	Wolrich et al.			
	A12	2003/0105917	06/2003	Ostler et al.			
	A13	2003/0110166	06/2003	Wolrich et al.			
	A14	2003/0115347	06/2003	Wolrich et al.			
	A15	2003/0115426	06/2003	Rosenbluth et al.			
	A16	2003/0131198	07/2003	Wolrich et al.			
	A17	2003/0140196	07/2003	Wolrich et al.			
	A18	2003/0145159	07/2003	Adiletta et al.			
	A19	2003/0147409	08/2003	Wolrich et al.			
	A20	2003/0161303	08/2003	Mehrvar et al.			
	A21	2003/0161337	08/2003	Weinman			
	A22	2003/0196012	10/2003	Wolrich et al.			
	A23	2003/0210574	11/2003	Wolrich et al.			
	A24	2003/0231635	12/2003	Kalkunte et al.			
	A25	2004/0039895	02/2004	Wolrich et al.			
	A26	2004/0052269	03/2004	Hooper et al.			
	A27	2004/0054880	03/2004	Bernstein et al.			

Examiner Signature /David England/	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
		Applicant Gilbert Wolrich et al.	
		Filing Date December 28, 1999	Group Art Unit 2143 2443

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A28	2004/0059828	03/2004	Hooper et al.			
	A29	2004/0071152	04/2004	Wolrich et al.			
	A30	2004/0073728	04/2004	Wolrich et al.			
	A31	2004/0073778	04/2004	Adiletta et al.			
	A32	2004/0085901	05/2004	Hooper et al.			
	A33	2004/0098496	05/2004	Wolrich et al.			
	A34	2004/0109369	06/2004	Wolrich et al.			
	A35	2004/0148382	07/2004	Narad et al.			
	A36	2004/0162933	08/2004	Adiletta et al.			
	A37	2004/0252686	12/2004	Hooper et al.			
	A38	2005/0033884	02/2005	Wolrich et al.			
	A39	2005/0149665	07/2005	Wolrich et al.			
	A40	2006/0007871	01/2006	Welin			
	A41	2006/0069882	03/2006	Wheeler et al.			
	A42	2006/0156303	07/2006	Hooper et al.			
	A43	3,623,001	11/1971	Kleist et al.			
	A44	3,736,566	05/1973	Anderson et al.			
	A45	3,889,243	06/1975	Drimak			
	A46	4,658,351	04/1987	Teng			
	A47	4,709,347	11/1987	Kirk			
	A48	4,858,108	08/1989	Ogawa et al.			
	A49	4,890,218	12/1989	Bram			
	A50	4,890,222	12/1989	Kirk			
	A51	5,202,987	04/1993	Bayer et al.			
	A52	5,251,205	10/1993	Callon et al.			
	A53	5,313,454	05/1994	Bustini et al.			
	A54	5,379,295	01/1995	Yonehara			

Examiner Signature /David England/	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
		Applicant Gilbert Wolrich et al.	
		Filing Date December 28, 1999	Group Art Unit 2143 2443

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A55	5,379,432	01/1995	Orton et al.			
	A56	5,404,464	04/1995	Bennett			
	A57	5,404,469	04/1995	Chung et al.			
	A58	5,452,452	09/1995	Gaetner et al.			
	A59	5,459,843	10/1995	Davis et al.			
	A60	5,475,856	12/1995	Kogge			
	A61	5,485,455	01/1996	Dobbins et al.			
	A62	5,515,296	05/1996	Agarwal			
	A63	5,539,737	07/1996	Lo et al.			
	A64	5,581,729	12/1996	Nistala et al.			
	A65	5,592,476	01/1997	Calamvokis et al.			
	A66	5,617,327	04/1997	Duncan			
	A67	5,625,812	04/1997	David			
	A68	5,630,074	05/1997	Beltran			
	A69	5,630,130	05/1997	Perotto et al.			
	A70	5,633,865	05/1997	Short			
	A71	5,638,531	06/1997	Crump et al.			
	A72	5,649,110	07/1997	Ben-Nun et al.			
	A73	5,651,002	07/1997	Van Seters et al.			
	A74	5,692,126	11/1997	Templeton et al.			
	A75	5,754,764	05/1998	Davis et al.			
	A76	5,768,528	06/1998	Stumm			
	A77	5,781,551	07/1998	Born			
	A78	5,805,816	09/1998	Picazo, Jr. et al.			
	A79	5,809,237	09/1998	Watts et al.			
	A80	5,828,881	10/1998	Wang			
	A81	5,828,901	10/1998	O'Toole et al.			

Examiner Signature /David England/	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Receipt date: 07/20/2009

Sheet 4 of 10

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
		Applicant Gilbert Wolrich et al.	
		Filing Date December 28, 1999	Group Art Unit 2143 2443

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A82	5,838,988	11/1998	Panwar et al.			
	A83	5,850,399	12/1998	Ganmukhi et al.			
	A84	5,857,188	01/1999	Douglas			
	A85	5,860,138	01/1999	Engelbrechtsen et al.			
	A86	5,898,686	04/1999	Virgile			
	A87	5,898,701	04/1999	Johnson			
	A88	5,898,885	04/1999	Dickol et al.			
	A89	5,909,686	06/1999	Muller et al.			
	A90	5,933,627	08/1999	Parady			
	A91	5,953,336	09/1999	Moore et al.			
	A92	5,960,210	09/1999	Jin			
	A93	5,968,169	10/1999	Pickett			
	A94	5,974,518	10/1999	Nogradi			
	A95	6,032,190	02/2000	Bremer et al.			
	A96	6,032,218	02/2000	Lewin et al.			
	A97	6,047,002	04/2000	Hartmann et al.			
	A98	6,049,867	04/2000	Eickemeyer et al.			
	A99	6,067,300	05/2000	Baumert et al.			
	A100	6,067,585	05/2000	Hoang			
	A101	6,085,248	07/2000	Sambamurthy et al.			
	A102	6,122,251	09/2000	Shinohara			
	A103	6,128,669	10/2000	Moriarty et al.			
	A104	6,141,677	10/2000	Hanif et al.			
	A105	6,175,927	01/2001	Cromer et al.			
	A106	6,212,544	04/2001	Borkenhagen et al.			
	A107	6,212,604	04/2001	Tremblay			
	A108	6,223,243	04/2001	Ueda et al.			

Examiner Signature <u>/David England/</u>	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Receipt date: 07/20/2009

Sheet 5 of 10

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
		Applicant Gilbert Wolrich et al.	
		Filing Date December 28, 1999	Group Art Unit 2143 2443

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A109	6,226,680	05/2001	Boucher et al.			
	A110	6,269,391	07/2001	Gillespie			
	A111	6,272,109	08/2001	Pei et al.			
	A112	6,272,520	08/2001	Sharangpani et al.			
	A113	6,282,169	08/2001	Kiremidjian			
	A114	6,295,600	09/2001	Parady			
	A115	6,311,261	10/2001	Chamdani et al.			
	A116	6,320,861	11/2001	Adam et al.			
	A117	6,335,932	01/2002	Kadambi et al.			
	A118	6,349,331	02/2002	Andra et al.			
	A119	6,359,911	03/2002	Movshovich et al.			
	A120	6,360,277	03/2002	Ruckley et al.			
	A121	6,377,998	04/2002	Noll et al.			
	A122	6,389,031	05/2002	Chao et al.			
	A123	6,393,026	05/2002	Irwin			
	A124	6,404,737	06/2002	Novik et al.			
	A125	6,424,657	07/2002	Voit et al.			
	A126	6,424,659	07/2002	Viswanadham et al.			
	A127	6,426,943	07/2002	Spinney et al.			
	A128	6,438,132	08/2002	Vincent et al.			
	A129	6,438,134	08/2002	Chow et al.			
	A130	6,448,812	09/2002	Bacigalupo			
	A131	6,457,015	09/2002	Eastham			
	A132	6,463,035	10/2002	Moore			
	A133	6,477,562	11/2002	Nemirovsky et al.			
	A134	6,484,224	11/2002	Robins et al.			
	A135	6,493,754	12/2002	Rosborough et al.			

Examiner Signature /David England/	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Receipt date: 07/20/2009

Sheet 6 of 10

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
	Applicant Gilbert Wolrich et al.		
	Filing Date December 28, 1999	Group Art Unit 2143 2443	

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A136	6,501,731	12/2002	Chong et al.			
	A137	6,507,862	01/2003	Joy et al.			
	A138	6,522,188	02/2003	Poole			
	A139	6,526,451	02/2003	Kasper			
	A140	6,526,452	02/2003	Petersen et al.			
	A141	6,553,406	04/2003	Berger et al.			
	A142	6,570,850	05/2003	Gutierrez et al.			
	A143	6,606,326	08/2003	Herring			
	A144	6,628,668	09/2003	Hutzli et al.			
	A145	6,629,147	09/2003	Grow			
	A146	6,629,236	09/2003	Aipperspach et al.			
	A147	6,631,422	10/2003	Althaus et al.			
	A148	6,657,963	12/2003	Paquette et al.			
	A149	6,658,551	12/2003	Berenbaum et al.			
	A150	6,661,774	12/2003	Lauffenburger et al.			
	A151	6,665,699	12/2003	Hunter et al.			
	A152	6,665,755	12/2003	Modelski et al.			
	A153	6,675,190	01/2004	Schabernack et al.			
	A154	6,675,192	01/2004	Emer et al.			
	A155	6,678,746	01/2004	Russell et al.			
	A156	6,680,933	01/2004	Cheesman et al.			
	A157	6,684,326	01/2004	Cromer et al.			
	A158	6,697,379	02/2004	Jacquet et al.			
	A159	6,721,325	04/2004	Duckering et al.			
	A160	6,724,767	04/2004	Chong et al.			
	A161	6,728,845	04/2004	Adiletta			
	A162	6,732,187	05/2004	Lougheed et al.			

Examiner Signature /David England/	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Receipt date: 07/20/2009

Sheet 7 of 10

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
		Applicant Gilbert Wolrich et al.	
		Filing Date December 28, 1999	Group Art Unit 2143 2443

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A163	6,754,211	06/2004	Brown			
	A164	6,754,222	06/2004	Joung et al.			
	A165	6,768,717	07/2004	Reynolds et al.			
	A166	6,775,284	08/2004	Calvignac et al.			
	A167	6,798,744	09/2004	Loewen et al.			
	A168	6,826,615	11/2004	Barrall et al.			
	A169	6,834,053	12/2004	Stacey et al.			
	A170	6,850,521	02/2005	Kadambi et al.			
	A171	6,856,622	02/2005	Calamvokis et al.			
	A172	6,873,618	03/2005	Weaver			
	A173	6,876,561	04/2005	Wolrich et al.			
	A174	6,895,457	05/2005	Wolrich et al.			
	A175	6,925,637	08/2005	Thomas et al.			
	A176	6,931,641	08/2005	Davis et al.			
	A177	6,934,780	08/2005	Modelski et al.			
	A178	6,934,951	08/2005	Wilkinson et al.			
	A179	6,938,147	08/2005	Joy et al.			
	A180	6,944,850	09/2005	Hooper et al.			
	A181	6,947,425	09/2005	Hooper et al.			
	A182	6,952,824	10/2005	Hooper et al.			
	A183	6,959,002	10/2005	Wynne et al.			
	A184	6,967,963	11/2005	Houh et al.			
	A185	6,976,095	12/2005	Wolrich et al.			
	A186	6,981,077	12/2005	Modelski et al.			
	A187	6,983,350	01/2006	Wheeler et al.			
	A188	7,006,495	02/2006	Hooper			
	A189	7,065,569	06/2006	Teraslinna			

Examiner Signature /David England/	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Receipt date: 07/20/2009

Sheet 8 of 10

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Gilbert Wolrich et al.	
		Filing Date December 28, 1999	Group Art Unit 2143 2443
(37 CFR §1.98(b))			

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A190	7,069,548	06/2006	Kushlis			
	A191	7,096,277	08/2006	Hooper			
	A192	7,100,102	08/2006	Hooper et al.			
	A193	7,111,072	09/2006	Matthews et al.			
	A194	7,111,296	09/2006	Wolrich et al.			
	A195	7,124,196	10/2006	Hooper			
	A196	7,126,952	10/2006	Hooper et al.			
	A197	7,149,786	12/2006	Bohringer et al.			
	A198	7,181,742	02/2007	Hooper			
	A199	7,191,321	03/2007	Bernstein et al.			
	A200	7,206,858	04/2007	Hooper et al.			
	A201	7,248,584	07/2007	Hooper			
	A202	7,305,500	12/2007	Adiletta et al.			
	A203	7,328,289	02/2008	Wolrich et al.			
	A204	7,352,769	04/2008	Hooper et al.			
	A205	7,424,579	09/2008	Wheeler et al.			
	A206	7,433,307	10/2008	Hooper et al.			
	A207	7,434,221	10/2008	Hooper et al.			
	A208	7,443,836	10/2008	Hooper et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	A209	0 773 648	05/1997	EP				
	A210	0 959 602	11/1999	EP			See A158	
	A211	2,327,784	02/1999	GB				
	A212	WO 98/20647	05/1998	WIPO				
	A213	WO 99/09469	02/1999	WIPO				

Examiner Signature /David England/	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Receipt date: 07/20/2009

Sheet 9 of 10

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Gilbert Wolrich et al.	
		Filing Date December 28, 1999	Group Art Unit 2143 2443
(37 CFR §1.98(b))			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country of Patent Office	Class	Subclass	Translation	
							Yes	No
	A214	WO 00/38376	06/2000	WIPO				
	A215	WO 00/56024	09/2000	WIPO				
	A216	WO 01/16718	03/2001	WIPO				
	A217	WO 01/17179	03/2001	WIPO				
	A218	WO 01/31856	05/2001	WIPO				
	A219	WO 03/030461	04/2003	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document	
		Author	Date
	A220	"Enterprise Hardware, Intel Expected to Unveil New Networking Chip," News.Com, August 26, 1999, <http://new.com.com/Intel+expected+to+unveil+new+networking+chip/2100-1001_3-230315.html> (accessed on 08/23/05), pages 1-5.	
	A221	"The ATM Forum Technical Committee Traffic Management Specification Version 4.1", The ATM Forum (March, 1999).	
	A222	Agarwal et al., "April: A Processor Architecture for Multiprocessing," Proceedings of the 17th Annual International Symposium on Computer Architecture, <i>IEEE</i> , pp. 104-114, (1990).	
	A223	Chandranmenon, G.P., et al., "Trading Packet Headers for Packet Processing", <i>IEEE/ACM Transactions on Networking</i> , 4(2):141-152, April 1996.	
	A224	Chappell, et al., "Simultaneous Subordinate Microthreading (SSMT)", <i>IEEE</i> , pg. 186-195 (1999).	
	A225	Dictionary of Computer Words: An A to Z Guide to Today's Computers, Revised Edition, Houghton Mifflin Company: Boston, Massachusetts, pp. 220, (1995).	
	A226	Digital Semiconductor 21140A PCI Fast Ethernet LAN Controller, <u>Hardware Reference Manual</u> , Digital Equipment Corporation, pages i-x, 1-1 through 1-5, 2-1 through 2-12, 3-1 through 3-38, 4-31 through 5-2, 6-1 through 6-24, (March 1998).	
	A227	Farrens, et al., "Strategies for Achieving Improved Processor Throughput", <i>ACM</i> , pg. 362-369 (1991).	
	A228	Giroux, N., et al., "Queueing and Scheduling: Quality of Service in ATM Networks, Chapter 5", Quality of Service in ATM Networks: State-of-the-Art Traffic Management, pp. 96-121 (1998).	
	A229	Govind, et al., "Performance modeling and architecture exploration of network processors", <i>Quantitative Evaluation of Systems</i> , abstract only (1 page), Sep. 2005.	
	A230	Kaiserswerth, M., "The Parallel Protocol Engine", <i>IEEE/ACM Transactions on Networking</i> , 1(6):650-663, December 1993.	
	A231	Khalany, B., et al., "Imagine: Media Processing with Streams," IEEE Micro, March-April 2001, pp. 35-46.	
	A232	Leon-Garcia, A., <u>Communication Networks: Fundamental Concepts and Key Architectures</u> , McGraw-Hill Higher Education, Copyright 2000, pp. 195-198, 215-219, & 380-385.	

Examiner Signature /David England/	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. 10559-0128001	Application No. 09/473,571
	Applicant Gilbert Wolrich et al.		
	Filing Date December 28, 1999	Group Art Unit 2143 2443	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	A233	Lim, A., et al., "Improving Performance of Adaptive Media Access Control Protocols for High-Density Wireless Networks", <i>Proceedings of the 1999 International Symposium on Parallel Architectures, Algorithms and Networks (ISPAN '99)</i> , pp. 316-321, June 1999.
	A234	Mollenauer, J.F., et al., "An Efficient Media Access Control Protocol for Broadband Wireless Access Systems", <i>IEEE Standard, IEEE 802.16 Broadband Wireless Access Working Group</i> , 19 pages, October 1999.
	A235	Ocheltree, K.B., et al., "A comparison of fibre channel and 802 MAC services", <i>Proceedings of 18th Conference on Local Computer Networks</i> , abstract only, 1 page, September 1993.
	A236	Shaw, M.C., et al., <i>UNIX Internals: A Systems Operations Handbook</i> , Windcrest Books, pp. 30-37, 1987.
	A237	Todorova, P., et al., "Quality-of-Service-Oriented Media Access Control for Advanced Mobile Multimedia Satellite Systems", <i>Proceedings of the 36th Annual Hawaii International Conference on System Sciences (HICSS'03)</i> , 8 pages, January 2003.
	A238	Vuppala, V., et al., "Layer-3 switching using virtual network ports", <i>IEEE Proc. Computer Communications and Networks</i> , pp. 642-648, 1999.
	A239	Wikipedia entry, "Media Access Control", retrieved from http://en.wikipedia.org/wiki/Media_access_control , 2 pages, July 31, 2007.

Examiner Signature /David England/	Date Considered 08/02/2009
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	